

**Exhibit 6**  
**to Declaration of Rachel Doughty**

**GREGORY J. ALLORD**

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**CONTACT INFORMATION**

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4905 Tokay Boulevard  
Madison, Wisconsin, United States of America 53711-1226

Cell: 608 770-5586  
Email: allordgreg@gmail.com

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**EDUCATION**

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University of Wisconsin-Madison, BA Geography/Cartography

Madison, WI 1976

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**MANAGEMENT POSITIONS**

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United States Geological Survey	December 1979 – January 2013
Chief, Cartography and Publishing Program, Water Resources Division	1979 – 2002
USGS Publishing Program Manager, Geographic Information Office	2002 – 2007
Manager, Historical Topographic Mapping Collection	2007 – 2013

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**SELECTED SPECIAL PROJECTS, USGS**

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Coal Hydrology Program	1978 – 1983
Cartographic Specialist and publishing manager for 62 individual reports of water resources in all U. S. Coal Fields	
Proof of Concept Team for Geographic Information System (GIS)	1982 – 1984
Conducted trial GIS project at EROS Data Center, evaluated GIS software, researched different GIS resulting in first Bureau-level procurement of GIS software	
Ground-Water Atlas of the United States	1991 – 1999
Lead specialist for implementing digital mapping workflow for this multi-volume national atlas	
Water-Resources Division Liaison to U. S. Fish & Wildlife Service	1993 – 1997
Assisted FWS, National Wetlands Inventory, to convert status and trends raster database to a GIS vector database	
Cartographic Specialist, National Water Summary Program	1983 - 1996
Multi-volume series on state-by-state special water-resources topics	
Bureau Publishing Program Manager and Chair, USGS Publishing Issues Group	2002 – 2007
Bureau-wide team of publishing specialists to review and approve new policies	
Coordinated and implemented digital publishing systems	
Developed contract specifications and award of uniform publishing software	
Part of Bureau team to review and revise publishing staff levels and budgets	
Publications Warehouse of the USGS	2004 – 2007
Initiated and implemented system for managing, populating and serving USGS publications	
Managed project to convert more than 30,000 scientific reports from paper to on-line format	

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Historical Topographic Map Collection 2007 – 2013  
 Conceptualized process for scanning and georeferencing quadrangle maps  
 Created metadata and scanned more than 180,000 topographic quadrangles  
 Research contract manager to University of Wisconsin-Madison, Geography Department to go  
 from white paper to deployed software for semi-automated georeferencing quadrangles  
 Placed more than 180,000 georeferenced quadrangles, with Federal Geographic Data Committee  
 compliant metadata, in USGS archives

**POST RETIREMENT**

Expanding Software for Georeferencing Maps 2015 – present  
 Continued to work with retired UW-Madison professor to expand original USGS software  
 Quad-G for quadrangle maps enhanced with two major revisions to Quad-G+  
 NotAQuad for thematic maps finalized and tested

**LIST OF PUBLICATIONS**

- James E. Burt, Jeremy White, Gregory Allord, Kenneth M. Then & A-Xing Zhu (2020) Automated and semi-automated map georeferencing, *Cartography and Geographic Information Science*, 47:1, p. 46-66.  
<https://doi.org/10.1080/15230406.2019.1604161>
- Fishburn, K. A., Davis, L. R., & Allord, G. J. (2017). Scanning and georeferencing historical USGS quadrangles: U.S. Geological Survey Fact Sheet. Vols. 2017–3048, 2 p. Reston, VA: USGS.  
<https://doi.org/10.3133/fs20173048>
- Gregory J. Allord, Jennifer L. Walter, Kristin A. Fishburn, and Gale A. Shea, (2014) Specification for the U.S. Geological Survey Historical Topographic Map Collection, Techniques and Methods 11-B6 in Book 11 *Collection and Delineation of Spatial Data*, U.S. Geological Survey Standards, 65 p.  
<https://doi.org/10.3133/tm11B6>
- Gregory J. Allord, Kristin A. Fishburn, and Jennifer L. Walter (2014) Standard for the U.S. Geological Survey Historical Topographic Map Collection, Techniques and Methods 11-B3 in Book 11 *Collection and Delineation of Spatial Data*, U.S. Geological Survey Standards, 11 p.  
<https://doi.org/10.3133/tm11B03>
- Kari J. Craun, John P. Donnelly & Gregory J. Allord (2011) The U.S. Geological Survey Mapping and Cartographic Database Activities, 2006 – 2010, *Cartography and Geographic Information Science*, 38:3, p. 326-329.  
<https://doi.org/10.1559/15230406382326>
- Thomas E. Dahl and Gregory J. Allord (1996) History of Wetlands in the Conterminous United States in National Water Summary on Wetland Resources, U. S. Geological Survey Water-Supply Paper 2425, p. 19-26.  
<https://doi.org/10.3133/wsp2425>

**GREGORY J. ALLORD**

Allord, G. J. and Paulson, R. W (1991) Use of GIS Technology in Preparing Water-Resources Publications, p. 10-12, United States Geological Survey Yearbook, fiscal year 1991.  
<https://doi.org/10.3133/70039039>

D.J. Graczyk, W. A. Gebert, W.R. Krug, and G.J. Allord (1987) Maps of runoff in the northeastern region and the southern Blue Ridge Province of the United States during selected periods in 1983-85, U.S. Geological Survey Open-File Report 87-106, 8 p., 3 plates.  
<https://doi.org/10.3133/ofr87106>

G .K. Moore, L.G. Baten, G.J. Allord, and C.J. Robinove (1983) Application of digital mapping technology to the display of hydrologic information; a proof-of-concept test in the Fox-Wolf River Basin, Wisconsin, U.S. Geological Survey Water-Resources Investigations Report 83-4142, 118 p.  
<https://doi.org/10.3133/wri834142>

Allord, G. J. and Scarpace, F. L, 1979, Improving Streamflow Estimates Through the Use of Landsat, in Satellite hydrology: proceedings of the Fifth Annual William T. Pecora Memorial Symposium on Remote Sensing, Sioux Falls, South Dakota, June 10-15, 1979, 730 pages.

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**CURRENT MEMBERSHIP AND AFFILIATIONS**


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Cartographic and Geographic Information Society  
 Board of Directors, 2000 - 2004  
 Director, AutoCarto 2012 Conference

American Library Association

North American Cartographic Information Society

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**SELECTED AWARDS**


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2014, Map and Geospatial Information Round Table, American Library Association, Annual Award  
 "Driving force for USGS Pubs Warehouse and USGS Historical Topos"

2009, U. S. Environmental Protection Agency Silver Medal for Superior Service (Group)  
 "Completion of seamless, nationally consistent National Watershed Boundary Dataset"

1996, U. S. Department of the Interior Honor Award for Superior Service